

White-Light Emitting Device, and Phosphor and Method of Its Manufacture

Abstract

White-light emitting device that excels in emission efficiency and temperature stability and that can put out white light of a color temperature of choice is afforded by utilizing phosphors of superior temperature characteristics and high light-emitting efficiency; the phosphors and a method of manufacturing the phosphors are also made available. An LED (1), and a phosphor (3) $\text{ZnS}_x\text{Se}_{1-x}$ ($0 < x < 1$) that contains at least one activator among Cu, Ag and Au and that, excited by light irradiated from the LED, produces light are furnished.